APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653720007-0"

SUBOTOWICZ, M.

Optical and radio methods of measuring orbits of artificial earth satellites. p. 35

WSZECHSWIAT. (Polskie Towarzystwo Prsyrodnikow im. Kopernika)
Warszawa. No. 2, Feb. 1959
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, No. 6, June 1959
Uncl.

PHASE I BOOK EXPLOITATION POL/4776

Subotowicz, Mieczysław

Astronautyka (Astronautics) Warsaw, Państwowe Wydawn. Naukowe, 1960. 586 p. Errata slip inserted. 2,750 copies printed.

Ed.: B. Wróblewska; Tech. Ed.: S. Rzepkowska.

PURPOSE: This book is intended for readers with a general education interested in space flight and should guide the speculative interests of readers to specific scientific and engineering problems. Chapters indicated by asterisks are more difficult and more than an average knowledge of calculus, dynamics, thermodynamics, chemistry, and electronics is necessary to follow them.

COVERAGE: The book discusses fundamental scientific and technical problems connected with the realization of space flights. Those branches of natural sciences that are directly pertinent to astronautics are identified and analyzed. Continuing research into their application to space flight technology is outlined.

Card ~~1/19~~

According to the foreword, the author is more concerned with the practical solutions of scientific and technical problems confronting designers and engineers who work in astronautics than with broad interplanetary and interstellar flight programs. In some chapters the author's own ideas and innovations are presented, such as, a space ship with photovoltaic mirrors using stellar energy for propulsion, the theory of classic and relativistic multistage rockets, and the suggestion of using magnetohydrodynamic phenomena for rocket propulsion. No personalities are mentioned. There are 182 references: 25 Soviet, 136 English, 20 Polish, and 1 French.

TABLE OF CONTENTS:

Card ~~2/19~~

SUBOTOWICZ, Mieczyslaw (Lublin)

Physicobiological problems of the newly planned cosmic flights of man. Wszechswiat no.9:222-226 S '62.

POLAND

SUBOTOWICZ, Mieczyslaw

Dept. of Experimental Physics, Univ. of Lublin (Katedra Fizyki Doswiadczalnej UMCS /Uniwersytet Marie Curie-Sklodowskiej/, w Lublinie)

Crakow, Postepy fizyki, No 3, May-June 1965, pp 349-367

"Measurement of matrix elements in the singularly inhibited shifts."

POLAND

SUBOTOWICZ, Mieczyslaw

Dept. of Experimental Physics, Marie Curie-Sklodowska Univ. (Katedra Fizyki Doswiadczalnej Uniwersytetu M. Curie-Sklodowskiej), Lublin

Crakow, Postepy fizyki, No 4, Jul-Aug 1965, pp 413-28

"Measurement of matrix elements in singularly inhibited shifts. Part II. Research methods and results."

SUBOTSKIY, V.Ye., kandidat meditsinskikh nauk (Moskva)

First aid in acute retention of urine. Med.sestra 15 no.8:12-16 Ag '56. (MLRA 9:10)

(URINE--RETENTION)

SUBOTSKIY, V.Ye., kand.med.nauk

Retrograde pyelography in subcutaneous injury of the kidneys.
Urologiia 23 no.5:28-33 S-O '58 (MIRA 11:11)

1. Iz Instituta imeni N.V. Sklifosovskogo (dir. -zaslyzhennyy vrach USSR M.M. Tarasov, glavnyy khirurg. - prof. B.A. Petrov).

(KIDNEYS, wounds & injuries
subcutaneous inj., diag. by r etrograde pyelography (Rus))
(PYELOGRAPHY, in various diseases
subcuataneous inj. of kidneys, retrograde technic (Rus))

SUBOTSKIY, V. Ye., kand. med. nauk

Primary surgical tactics in acute closed injury of the urethra. Khirurgiia no.4:111-116 '62. (MIRA 15:6)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi imeni N. V. Sklifosovskogo (dir. - zasluzhennyy vrach UkrSSR M. M. Tarasov, glavnyy khirurg - prof. B. A. Petrov)

(URETHRA—WOUNDS AND INJURIES)

SUBOTSKIY, V.Ye., kand. med. nauk; VICHTOMOVA, T.K., kand. med. nauk; FIDRUS, Ye.I.

Primary retroperitoneal sclerosing fibrosis in the pathogenesis of diseases of the urinary organs. Urologiia no.6:49-52 N-D '63. (MIRA 17:9)

1. Iz Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta skoroy pomoshchi im. Sklifosovskogo (glavnyy khirurg-chlen-korrespondent AMN SSSR prof. B.A. Petrov).

SUBOVA, M.

Effect of overstimulation of the CNS on glycemia in rats in various conditions. Cesk. fysiol. 8 no.6:558 N '59

1. Fyziologicky ustav Lek. fak. UK. Kosice.
(CENTRAL NERVOUS SYSTEM, physiol.)
(BLOOD SUGAR physiol.)

SLAK, J.

We shall train 77,000 new drivers. p. 481. (SVET MOTORU, Vol. 11, No. 16, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

UDUPA, K. S.; SUBRAMANIAN, G. S.; UDUPA, H.V.K.

Dual cathode technique for the electrolytic reduction of m -dinitrobenzene to 2,4-diaminophenol. Bul chim PAN 9 no.6:419-424 '61.

1. Central Electrochemical Research Institute, Karaikudi-3, India. Presented by T. Urbanski.

L 22090-66 EWT(m)/EPF(n)-2/EWA(h)

ACC NR: AR6005236 SOURCE CODE: UR/0058/65/000/009/E132/E132

54
B

AUTHOR: Subramanian, R.; Kharadze, G. A.

TITLE: Inelastic magnetic scattering of neutrons by a ferromagnetic crystal

SOURCE: Ref. zh. Fizika, Abs. 9E1097

REF SOURCE: Sb. Elektron. i ionnyye protsessy v tverd. telakh. No. 1. Tbilisi, Metsniyereba, 1964, 77-89

TOPIC TAGS: neutron scattering, electron spin, thermal neutron, crystal lattice, neutron energy distribution, differential cross section, scattering cross section, Green function, magnetic crystal

TRANSLATION: The authors consider theoretically the form of the energy spectrum of thermal neutrons scattered inelastically by a system of electron spins localized in the sites of the crystal lattice and coupled by exchange interaction. Special attention is paid to the question of the deviation of the energy distribution of the inelastically scattered neutrons from the pure Lorentz form. The calculation was made for a simple Heisenberg model of an isotropic ferromagnet: the differential cross section for the neutron scattering is expressed in terms of the spin correlators, for the calculation of which a chain of Green's equations is solved approximately. After carrying out the decoupling in all the pairings in the second Green's function, a single-particle Green's function is obtained with poles in the complex plane. The asymmetry parameter of the energy spectrum is the imaginary part of the mass operator. Yu. Rudoy.

SUB CODE: 20

Card 1/1

SPICAK, V.; SUBRT, F.

Effect of apigenin on histamine liberation. Cesk. fysiol. 7 no.3: 263-264 May 58.

1. Katedra farmakologie a pokusne fysiologie fakulty detskeho lekarstvi, Farmakologicka laborator chemickeho ustavu CSAV, Praha.

(PLANTS,
chamonile tincture apigenin, eff. on histamine liberation (Cz))
(HISTAMINE, physiol.
liberation, eff. of chamonile tincture apigenin (Cz))

SUBRT, F.:JANKA, I.

Effect of testerone on experimental hypertension in rats. Cesk. fysiol. 9 no.1:92-93 Ja 60.

1. Farmakologicka laborator Chemickeho ustavu CSAV, Praha.
(TESTOSTERONE pharmacol.)
(HYPERTENSION exper.)

SUBRT,F.; GULDA,O.

On the effect of hypolivate on the isolated mammalian heart.
Cesk.fysiol. 9 no.3:303 My '60.

1. Farmakologicka laborator Chemickeho ustavu CSAV, Praha,
Farmakologicka katedra fak.detsk.lek. KU, Praha.
(HEART pharmacol)
(ANTIHYPERTENSIVE AGENTS pharmacol)

SUBERT, Ivan

Histological examination of so-called senile changes in the elastic tissue of the skin. Cesk. derm. 37 no.1:35-39 F '62.

1. Fakultni nemocnice v Praze 10, odd. patologicke anatomie, prednosta doc. dr. J. Stolz.

(CONNECTIVE TISSUE anat & histol)
(AGING physiol)

CZECHOSLOVAKIA

PAVLIK, I; JUBERT, J

Department of General and Inorganic Chemistry, Institute of Chemical Technology, Pardubice - (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 1, January 1967, pp 76-88

"Studies on the protonization of ferrocene by means of infrared spectroscopy."

PECOVA, Jana; SUBRT, Jaroslav

The electrotelluric observatory Budkov. Geofys sbornik 9:441-473 '61.

1. Geophysikalisches Institut, Tschechoslowakische Akademie der Wissenschaften, Praha.

, [illegible], [illegible]

STUDNIK, Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: /not given/

Source: Prague, Studia Geophysica et Geodetica, Vol 5, No 4, 1961, pp 375-378.

Data: "Czechoslovak Scientist Back From Antarctica." /In English/

GPO 981643

SUBRT, Miloslav, inz.

Accessories of the WKV jig boring machine. Stroj vyr 11 no.9: 442-447 S '63.

1. Kovosvit, n.p., Sezimovo Usti.

SUHRT, Miloslav, inz.

Hydraulic shifting of gears in gear boxes. Stroj vyr 12 no.9: 656-658 S '64.

1. Kovosvit National Enterprise, Sezimovo Usti.

SUBRT, Oldrich, inz.

Use of technical standardization in collective farm operation is profitable. Normalizace 11 no.9:304-306 S '63.

1. Predseda, Jedotne zemedelske druzstvo Ruda zare, Horomerice.

SUBRT, O.

Method of storage, distribution, and transportation of lubricants in machine-tractor stations. p. 150.

Vol. 6, no. 8, Apr. 1956

SBORNIK. RAD A MECHANISACE A ELETRIFIKACE ZEMEDELSTVI A LESNICTVI

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 11 Nov. 1956

SUBRT, O.

SUBRT, O. Some experiences from storing fuel and lubricants at machine-tractor station centers. p. 352.

Vol. 6, no. 12, Sept 1956
MACHANISACE ZEM EDELSTVI
AGRICULTURE
Czechoslovakia

So: East European Accession, Vol. 6, No. 5, May 1957

SUBIT, O.

Supplying tractors, combines, and agricultural machinery with fuels and lubricants. p.296.
(Mechanisace Zemedelstvi, Vol. 7, No. 13, July 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessiors (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

SUHRT, O.

Experiences from observing the wear and life of Zetor Super tractors. (To be contd.)

p. 448. (Mechanesace Zemedlstvi. Vol. 7, No. 19, Oct. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 2,
February 1958

SUBRT, O

Fall plowing requires a better lubrication of tractors.

P. 475 (Mechanisace Zemedelstvi) Vol. 7, No. 20, Oct. 1957 - Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

SUBRT, O.

TECHNOLOGY

Periodical AUTOMOBIL. Vol. 2, no. 12, 1958.

SUBRT, O. Testing the wear of motor cylinders. p. 423.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

CZECHOSLOVAKIA

SEMONSKY, M; CERNY, A; KAKAC, B; SUBERT, V.

Research Institute of Pharmacy and Biochemistry (Forschungsinstitut für Pharmazie und Biochemie), Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1963, pp 3278-3288

"Substances with Antineoplastic Activity. VI. Aminolysis of gamma-Aryl-Alpha,beta-Dihalogen-delta alpha-beta-Croton-lactones; Some Substituted beta-Aroyl-beta-Halogen Acrylic Acid Amides and -Propionic Acid Amides, As Well As beta-Aroylpropionic Acid Amides."

(4)

SLOVT, Adonak

Casting malleable cast iron in metallic molds. Slevarenstvi 13 no.4:148-150 Ap '65.

1. Brandyske strojirny a slevarny National Enterprise, Brandys.

L 30974-66

ACC NR: AP6006029 SOURCE CODE: CZ/0053/65/014/004/0287/0288

36

B

AUTHOR: Bargar, M.; Mikovcikova, O.; Subrtova, M.

ORG: Department of Pharmacodynamics and Toxicology, Faculty of Pharmacy, Comenius University, Bratislava (Katedra farmakodynamiky a toxikologie Farmaceutickej fak. UK)

TITLE: Mechanism of action of cyclomethon [This paper was presented during the Twelfth Pharmacologic Days, Smolenice, 28 Jan 65.]

SOURCE: Ceskoslovenska fysiologie, v. 14, no. 4, 1965, 287-288

TOPIC TAGS: experiment animal, rat, drug effect, myology, potassium

ABSTRACT: Study of mode of action of succinylcholine and cyclomethon, both muscle relaxants, in eviscerated cats, rat diaphragm in vitro and isolated rat phrenicodiaphragmatic preparation. Role of potassium was key; drug molecules can be tailored to select depolarizing or competitive mode of muscle relaxant activity. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 06 / SUBM DATE: none / OTH REF: 003

Card 1/1

EBELA, A.; IKAUNIECE, A.; ILZINA, B.; KURAYEVA, T.; KUROSA, V.; MIKE, B.; OSA, Z.; SUBS, R., prof.; EDZELINA, M., red.

[Gynecology] Ginekologija. [By] A.Ebela un citi. Riga, Liesma, 1965. 180 p. [In Latvian] (MIRA 18:6)

SUBSTYK, Danuta

Elements of rare earths in phosphorite-bearing deposits in Poland. Kwartalnik geol 6 no.4:738-739 '62.

1. Zaklad Geochemii, Instytut Geologiczny, Warszawa.

SUBSTYK, Danuta

POLAND

SUBSTYK, Danuta

Department of Geochemistry of the Geological Institute
(Zaklad Geochemii Instytutu Geologicznego)

Warsaw, Kwartalnik Geologiczny, No 3, 1963, pp 501-02.

"Rare Earths of Some Polish Phosphate Rocks".

RUSANOVSCHI, V., ing.; SANDULESCU, M., ing.; SUBTIREIU, Maria, ing.

Study of the influence of raw material and the technological process on the quality of combed cotton yarns. Ind text Rum 14 no.8:339-345 Ag'63

SUBTIRELU, Maria, ing.

Modern methods for determining spinning machine defects.
Ind text Rum 14 no.10:451-456 S '63.

RUSANOVSCHI, V., ing.; SUBTIRELU, Maria, ing.

Determination of the high quality and maturity of cotton fibers with the Micronaire device and the influence of micronaire index on yarn quality in combed cotton spinning. Ind text Rum 15 no.12: 646-652 D '64.

1. Director, Rumanian Cotton Spinning Mill, Bucharest (for Rusanovschi). 2. Rumanian Cotton Spinning Mill, Bucharest (for Subtirelu).

SUC, Andrija, dr.

Convention on the responsibility of the nuclear ship operator; the Brussels draft. Medun transp 7 no.11:1002-1010 N '61.

(Atomic ships) (Maritime law)

SUC, Andrija, dr.

Convention of the responsibility of the nuclear ship operator: the Brussels draft. Medun transp 7 no.12:1094-1098 D '61.

SUCACEV, V.

"Some theoretical bases of scientific research regarding the planting of windbreaks."
Tr. from the Russian p. 32.
(Analele Romano-Sovietice. Seria Silvicultura-Industria Lemnului Si A Hartieli.
Series a II-a, v. 7, no 16, Nov/Dec 1952 Bucresti)

EAST EUROPEAN Vol 2, No 9
SO: Monthly List of ~~XXXXXXX~~ Accessions, Library of Congress, September 1953, Uncl.

GIRBEA, St.; SALAMON, E.; BODEA, I.; ALBU, B.; SUCEAVA, I.; BOLZA, R.; DUMAREANU, O.; VASIU, I.

The treatment of laryngeal cancer at the ORL Clinic, Timisoara. Rumanian M. Rev. 3 no.1:68-72 Jan-Mar 59.

(LARYNX, neoplasms
surg. statist.)

L 33143-66 EWP(f)/T-2

ACC NR: AP6024570 SOURCE CODE: RU/0017/65/000/003/0130/0135

AUTHOR: Sucebeanu, Gh. (Engineer); Vasiloiu, A. (Engineer)

ORG: Technological Research Institute for Machine Building (Institutul de Cercetari Tehnologice Pentru Constructii de Masini)

34
B

TITLE: Studies concerning the ferroxation of piston rings

SOURCE: Metalurgia, no. 3, 1965, 130-135

TOPIC TAGS: engine component, metal heat treatment

ABSTRACT: The authors tested various combinations of conditions for the ferroxation of piston rings, and concluded that best results are obtained by means of a heating treatment in water steam at a temperature of 550 to 570 degrees centigrade for 90 to 240 minutes, with longer periods required at lower temperatures. Orig. art. has: 4 figures, 4 formulas and 1 table. [Based on author's Eng. abst.] [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 001 / SOV REF: 001
OTH REF: 002

LS

Card 1/1 UDC: 621-762.63:621.785.1

0915 2203

SUCEVEANU, A.; SPINZI, M.

Physical properties of solid catalysts. I. Appartus for determining the electric conductivity of catalysts. p. 555.

Academia Republicii Populare Romine. STUDII SI CERCETARI DE CHIMIE. Bucuresti, Rumania. Vol. 6, no. 4, 1958.

Monthly List of East European Accessions (EEAI) Vol. 8, no. 7, July 1959.

Uncl.

SUCEVEANU, A.

7

Physical properties of solid catalysts. III. Electroconductometric study of the catalyst $Pt-Al_2O_3$ used in the Platforming process. Microreactor equipment for the determination of electrical conductivity and for the semiconductor character of metallic oxides and catalysts. I. V. Nicolescu, A. Popescu, M. Spinzi, and A. Suceveanu. *Rev. chim., Acad. rep. populare Roumaine* 4, 75-92(1959)(in French); *cf. C.A.* 53, 21102*b*.—A microreactor for the study of elec. cond. of solid catalysts was constructed. Reproducibility was studied by calibrating elec. cond. of NiO and ZnO in air and in a discontinuous H stream, confirming the hypothesis of Heckelsberg, *et al.* (*C.A.* 49, 7960*i*). PtO behaves as a *n*-type semiconductor in the temp. interval 280-500°. As regards the variation of elec. cond. as a function of temp., Al_2O_3 behaves as a very weak semiconductor with pos. holes at low temp. and as an electronic semiconductor at higher temps. The catalyst Pt on Al_2O_3 (1% Pt) used in Platforming appears to be a complex energetic system that behaves as a very weak conductor with pos. holes.

Frederick C. Nachod

5

Jad(NP)

CQH

NICOLESCU, I.V.; SUCEVEANU, A.; ANGELESCU, Emilian

Contributions to the study of the reaction of esterification in the presence of the ion-exchanger catalysts. Studii cerc chim 7 no.4:621-630 '59. (EEAI 9:7)

1. Centrul de cercetari chimice al Academiei R.P.R., Sectorul de reactii catalitice, Bucuresti. 2. Comitetul de redactie, Studii si cercetari de chimie (for Nicolescu, Angelescu) 3. Membru correspondent al Academiei R.P.R. (for Angelescu)
(Esterification) (Chemical reactions) (Catalysts)
(Ion exchange)

Card

SUCEVEANU, Gheorghe, ing.; ROSENTHAL, Gabriel, ing.

Determining the efficiency of sulfidation by seizing and friction wear and tear tests. Metalurgia constr mas 13 no. 4: 283-292 Ap '61.

1. Institutul Tehnologic pentru Constructii de Masini si Electrotehnica.

SUCEVEANU, Gheorghe, ing.; PAVLENCO, Sorin, ing.

Sulfurizing pump components. Metalurgia constr mas 14 no.10:874-880 O '62.

1. Institutul de studii, cercetari si proiectari tehnologice pentru industria constructoare de masini si industria electrotehnica (for Suceveanu). 2. Uzina de pompe si masini agricule (for Pavlenco).

SUCEVEANU, Gheorghe, ing.

Technology of the application of the sulfurization method. Metalurgia Rum 15 no.4:326-329 Ap '63.

1. Institutul de studii, cercetari si proiectari tehnologice pentru industria constructoare de masini si utilaje si industria electrotehnica I.T.C.M.E.

SUCEVIC, M.

Forestry propaganda on the occasion of Forestry Month. p. 409.

NARODNI SUMAR. (Drustvo suumarskih inzenjera i tehnicara Bosne i Hercegovine) Sarajevo, Yugoslavia. Vol. 13, no. 7/8, July/Aug. 1959

Monthly List of East European Accessions (EEAI) LC Vol. 9, no. 2, Feb. 1960.

Uncl.

PORSZASZ, J.; SUCH, Gy.; PORSZASZ-GIBISZER, K.

Interoceptive circulatory and respiratory chemoreflexes. Acta physiol. hung. 11(Suppl):50-52 1957.

1. Physiologisches Institut der Medizinishcen universitat, Szeged.
(REFLEX
interoceptive circ. & resp. chemoreflexes, study by capsaicin in dogs (Ger))

HUNGARY/Human and Animal Physiology. Blood Circulation. General Problems. T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93182.

Author : Porszasz, J., Such, Gy., Porszasz-Gibiszer, Katalin.
Inst : MS Hungary.
Title : Circulatory and Respiratory Chemoreflexes. I. Analysis of the Site of Action and Receptor Types of Capsaicin.

Orig Pub: Acta physiol. Acad. sci. Hung., 1957, 12, No 1-3, 189-205.

Abstract: In crucial experiments on dogs under morphine-choralose anesthesia a study was made of the localization of receptors which, stimulated by capsaicin (1), produced reflex reduction of the blood pressure, bradycardia, and arrest of respiration (Bezold-Jarisch reflex). This reflex response arose with the introduction of I into

Card : 1/3

PORSZASZ, J.; SUCH, G.

The reflectory chronaxie of vasomotor reflexes. Acta physiol. hung. 14 no.1:13-26 1958.

1. Institute of Physiology, Medical University, Szeged.
(REFLEX
vasomotor, reflectory chronaxy)

SUCH, G.; VICSAY, M.; PORSZASZ, J.

The problem of symmetry in the vasomotor reflex activities. Acta physiol. hung. 14 no.1:27-38 1958.

1. Institute of Physiology, Medical University, Szeged.
(REFLEX
vasomotor, asymmetry of responses elicited from symmetrical areas)

SUCH, G.

Aspecific acoustico-depressor reaction. Acta physiol.hung. 16 no.4:257-265 '59.

1. Institute of Physiology, Medical University, Szeged.
(HEARING physiol.)
(AUTONOMIC NERVOUS SYSTEM physiol.)

PORSZASZ,J.; SUCH,Gy.; MADARASZ,I.; BERTA,M.; GIBISZER-PORSZASZ,Katalin.

Possibility of summation in the vasomotor and respiratory centre, electrophysiological investigations on the vagal nerve in the cat. Acta physiol. hung. 17 no.1:23-34 '60.

1. Institute of Physiology, Medical University, Szeged.
(VAGUS NERVE physiol.)
(VASOMOTOR SYSTEM physiol.)
(RESPIRATION physiol.)

SUCH,Gy.; POBSZASZ,J.

On the reversal of the vagal vasomotor reflexes. Acta physiol. hung. 17 no.1:35-38 '60.

1. Institute of Physiology, Medical University, Szeged.
(VAGUS NERVE physiol.)
(VASOMOTOR SYSTEM physiol.)

HUNGARY

SHOM, G., MIDARASZ, I., DOBOZY, A., and KIPOM, E., of the Institute of Physiology, Medical University, Szeged [Original version not given].

"Attempt at the Statistical Recording of Human Higher Nervous Activity"

Budapest, Acta Physiologica Academiae Scientiarum Hungaricae, Supplement TO Vol 22, 1963; pp 31-32.

Abstract [Authors' English summary, modified]: The dynamics of higher nervous activity has been investigated in university students under physiological conditions as well as pharmacological influences. The tests were used, a motor conditioned reflex test with verbal reinforcement, and the tickticktoe test. The frequency of occurrence of the different latency times and stop numbers was represented in diagrams. Chlorpromazine, amphetamine, meprobamate and caffeine did not significantly change the shape of the diagrams. It was concluded that the shape of the frequency diagrams is characteristic in the individual, and that on this ground a stable and and unstable nervous activity can be distinguished depending on how well the environmental influences are compensated.

1/1

27008/60/000/04/003/019
E142/E435

AUTHOR: Ladislav Šůcha

TITLE: Methods for the Determination of Stability Constants of Complex Compounds in Solutions

PERIODICAL: Chemické listy, 1960, Nr 4, pp 344-352

ABSTRACT: The equilibrium state which occurs during complex-forming reactions between the "free" (solvated) metal ions, the ligand(s) and the complex in the solution is characterized by the equilibrium constant, the so-called stability constant of the complex. Equations are given which define the formation of complex solutions, the equilibrium constant β and the inverse value of this constant which corresponds to the dissociation (dissociation constant) of the complex. The variation in the standard free energy of the complex-forming reaction can be calculated from the stability constant and the reaction temperature and variations in the standard entropy from the equilibrium constant. The thermo-dynamic and concentration constants for various types of complexes are calculated. The second part of the article is a literature review on the theory of the gradual formation of

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Z/008/60/000/04/003/019
E142/E435

Methods for the Determination of Stability Constants of Complex Compounds in Solutions

complexes in solution. It is suggested that the equilibrium concentration can be determined by three methods, namely by defining 1) the concentration of the free ligand, 2) the concentration of the free metal and 3) the concentration of one or more complexes. A separate paper will be devoted to the experimental determination of the equilibrium concentration. There are 24 references, 5 of which are Soviet, 14 English and 5 German.

ASSOCIATION: Katedra analytické chemie, Vysoká škola chemicko-technologická, Praha (Chair of Analytical Chemistry, College for Chemistry and Technology, Prague)

Card 2/2

HOVORKA, V.; SUCHA, L.

Salt-forming capacity of 4-isonitropyrazolone. I. Introduction. II Silver salts. Coll Cz Chem 25 no.1:55-67 Ja '60. (EEAI 9:12)

1. Institut fur analytische Chemie, Technische Hochschule fur Chemie, Prag.
(Pyrozolinone) (Oximes) (Silver)

HOVORKA, V.; SUCHA, L.

Salt formation of 4-iso nitrosopyrozolones. Part 3: Thermogravimetric analysis of silver chelates of substituted 4-iso nitrosopyrazolones. Coll Cz Chem 25 no.5:1432-1438 My '60.

1. Department of Analytical Chemistry, Institute of Chemical Technology, Prague.

HOVORKA, V.; SUCHA, L.

Salt formation of 4-iso nitrosopyrazolones. Part 4: On the use of electrophoresis in the study of the structure of iso nitrosopyrazolone metal chelats. Coll Cz Chem 25 no.5:1439-1443 My '60.

1. Department of Analytical Chemistry, Institute of Chemical Technology. Prague.

HOVORKA, V.; SUCHA, L.

Salt formation of 4-isonitrosopyrazolones. V.Thallium salts. VI.Cupric salts. Coll Cz Chem 25 no.7:1790-1806 Jl '60.

(EEAI 10:9)

1. Department of Analytical Chemistry, Institute of Chemical Technology, Prague.

(Pyrazolinone) (Thallium) (Copper) (Oximes)

SUCHA, L.

"Periodic chart of the atoms" by H.D.Hubbard. Reviewed by L. Sucha. CollCz Chem 26 no.8:2093-2094 '61.

SUCHA, L.

"Treatise on analytical chemistry. A comprehensive account in three parts. Part I. Theory and practice" by I.M. Kolthoff, P.J. Elving and E.B. Sandell. Reviewed by L. Sucha. Coll Cz Chem 27 no.2:515-515 F '62.

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"Treatise on analytical chemistry. A comprehensive account in three parts" edited by I.M. Kolthoff, P.J.Elving, E.B. Sandell. Pt. 1. Reviewed by L. Sucha. Chem listy 57 no.8:857 Ag'63.

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"A textbook of quantitative inorganic analysis"by Arthur I. Vogel. Reviewed by L. Sucha. Chem listy 57 no.8:858-859 Ag '63.

SUCHA, L.; VOLKA, K.

Use of citrate compexes with the ions of Fe^3 /Fe^2 systems in the volumetric analytic determination of citric acid. Coll Cz Chem 29 no. 6:1361-1373 Je '64.

1. Institute of Analytical Chemistry, Higher School of Chemical Technology, Prague.

SUCHA, L.; URNER, Z.

Titanometric determination of chlorine complexes of copper I,II) and iron (II, III) in mixture. Coll Cz chem 29 no.7: 1612-1617 Jl '64.

1. Institut fur analytische Chemie, Technische Hochschule fur Chemie, Prag.

Book 1.

"Treatise of analytical chemistry" by I.M. Kolthoff, [illegible] Publ. Reviewed by L.Burka, Coll Cs Chem 22 no.1 [illegible] [illegible]

SUCHA, M.

Complement fixation in homeopolar system. Cesk. hyg. epidem. mikrob. 2 no.5:395-398 Oct. 53.

1. Z psychiatricke kliniky Karlovy university. Prednosta: prof. Dr Zdenek Myslivecek
(COMPLEMENT,
fixation in immune sera)
(IMMUNE SERUMS,
complement fixation)

SUCHA, M.; HANZLICEK, L.

Fibrin reaction in psychiatry. Neur.psychiat. cesk. 18 no.3:183-188 May 55.

1. Ze serologicke a biochemicke laboratore psychiatricke kliniky prof. dr. Myslivecka

(MENTAL DISORDERS, etiology and pathogenesis
neuroinfect., diag. fibrin reaction)
(FIBRIN
fibrin reaction in diag. of mental disord. due to neuroinfect.)

Czechoslovakia/Plant Physiology. Growth and Development I

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58235

Author : Sucha M.
Inst : Brno Agricultural Institute
Title : Investigation of the Effect of some Growth Inhibitors on Seedlings of the Pea (Pisum sativum)

Orig Pub : Sbor. Vysokeskoly zemed. a Lesn. fak. Brne, 1956, No 4, 211-223

Abstract : Three to four day old pea seedlings grown on moist sawdust were placed with their roots into solutions of the hydrazide of maleic acid (HMA) or in vapors of the methyl ester of α-naphthylacetic acid (1), or of the α-naphthyl methyl ester (11). The results of 10 experiments are described. The soaking of the seeds in solutions

Card 1/3

SUCHACEK, V.

Inventors and Rationalizers Month in railroad transportation. p. 264

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy) Praha, Czechoslovakia.
Vol. 7, no. 9, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 12, Dec. 1959
Uncl.

SUCHACI, Ioan; URSACHE, Romeo; TOMESCU, V.

Studies of the possibility of anti-variola vaccination of pigeons with turkey-pox virus. Stud. cercet. inframicrobiol., Bucur. 7 no.3-4:403-411 July-Dec 56.

1. Comunicare prezentata in sedinta Institutului de inframicrobiologie al Academiei R.P.R.

(VIRUS DISEASES, immunology
immun. of pigeons against fowl pox by vacc. with turkey-pox virus)
(BIRDS, diseases
pigeon-pox, prev. by vacc. of pigeons with turkey-pox virus vaccine)

L 64471-65 EWT(1)/EWA(h)

ACCESSION NR: AR5005450

S/0275/64/000/012/A021/A021
621.385.623.4

16
B

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 12A111

AUTHOR: Volkov, Ye. G.; Sucharkin, D. D.

TITLE: One-kw klystron amplifier for a 10-cm band

SOURCE: [illegible] Elektr. Elektr. tekhn., in-ta, vyp. 32, 1964, 13-25

TOPIC TAGS: klystron, klystron amplifier, 1 kw klystron, 10 cm klystron

TRANSLATION: The design is described, and the results of testing are discussed of [illegible] The cathode assembly is shielded by placing it into the cavity of a magnetic polepiece which is an integral part of the klystron. The magnetic polepiece is not a part of the klystron vacuum envelope; it is used for cooling. An axial magnetic field

Card 1/2

L 64471-65

ACCESSION NR: AR5005450

ensures a constant electron beam. Toroidal resonators are employed. A capacitive frequency tuning is attained through a deformation of the resonator side wall [illegible] obtained from the [illegible] supply voltage tests can serve for rough determination of the required supply stability. The klystron efficiency was over 30% under some conditions. Results also have been obtained which permit evaluating the effect of various factors on the klystron performance and finding ways to increase the [illegible]

SUB CODE: EC ENCL: 00

Card 2/2

L 28864-65 EEC(b)-2/EWA(h)/EWT(1) Pi

ACCESSION NR: AR5004569 S/0275/64/000/011/A019/A019

621.385.623.4

18

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 11A107

AUTHOR: Volkov, Ye. G.; Suchalkin, D. D.

TITLE: Regularities in the operation of a klystron amplifying short pulses

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vyp. 53, 1964, 216-227

TOPIC TAGS: klystron, pulsed klystron

TRANSLATION: The effects of various factors is considered which distort the amplified pulse shape in a klystron and restrict the minimum duration of pulses. Two methods of modulation with the klystron operating under pulse conditions are compared: the pulse-excitation method and the pulse-controlled beam current method. The method of current modulation by means of an additional control electrode in the [illegible] preferable [illegible] the pulse shape [illegible] input [illegible] determined by the [illegible]-pulse and gun characteristics. The trans[illegible] mainly affect the flat top of the pulse. Intermediate stages have an essential influence on the further pulse-shape changes. With no

Card 1/2

ACCESSION NR: AR5004569

external load, the intermediate resonators have a narrowest frequency band. Pulse transmission can be improved by detuning the intermediate resonators with respect to the working-signal frequency. The best results can be obtained by detuning the intermediate resonators toward higher frequencies. The processes in the output resonator have but little effect on the pulse shape. This is due to the fact that the resonator [illegible] to the external load has a wide frequency band. The output-stage effects on the pulse shape are different for "small" and "large" amplitudes. Under small-signal conditions, the output-pulse shape is largely determined by the transients in the preceding stages. Under large-signal conditions, the output [illegible] which [illegible] the pulse top. The [illegible]-stage "restriction" phenomenon may be due either to an optimal bunching [illegible] the output resonator. The theoretical results were verified experimentally on a 4-resonator medium-power klystron. The above data may prove useful for designing and operating of

[illegible]

[illegible] 621.385.23.4

[illegible] Abs. 11A100

AUTHOR: Sushanskiy, D. D.

15
B

TITLE: Investigation of the klystron-input processes under pulse-modulation conditions

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vyp. 53, 1964, 228-235

[illegible]

L 64803-65

ACCESSION NR: AR5004570

front rise depends on the attenuation constant. Distortion of the flat segment of [illegible] with [illegible]-current modulation, the [illegible]

[illegible] Bibliography: 3 titles.

SUB CODE: EC ENCL: 00

Card 2/2

USSR/Agriculture
Droughts

Jan/Feb 49

"The Water Regime of the Stone Steppe in Periods of Drought," D. P. Burnatskiy, Cand Agr Sci, M. I. Suchalkina, Inst of Agr imeni V. V. Dokuchayev, Talovaya, Voronezh Oblast, 3 pp

"Agrobiol" No 1

Two dry periods (1946, 1947) showed that: There was practically no drought in tree belts. Crop level was much higher than on the open steppes. Fields near tree belts made better use of winter precipitation. Use of the grass system so improved the water regime

[redacted]

56/49T1

USSR Agriculture (Contd)

Jan/Feb 49

that even during droughts there was sufficient water for vegetation.

SUCHALKINA, M.I.

[redacted]

56/49T1

15

CA

Variations in the organic matter of ordinary chernozem under a grass system at Kamennaya Steppe. M. I. Suchalkina. *Pochvovedenie* (Pedology) 1950, 449-55.—Samples of chernozem in perennial grasses for 1, 2, and 4 years were analyzed for the differences in types of org. matter. The soils were treated to remove the carbonates. The first humic acid and fulvic acid fractions were extd. by repeated treatments with 0.1 *N* KOH. These org. substances represent the unstable combination of mineral and org. complexes in the soil (with Ca and partly with R_2O_3). The second fraction of the org. matter was obtained by alternate extn. with 0.1 *N* KOH and 0.1 *N* H_2SO_4. These org. substances represent the group assocd. primarily with the R_2O_3. The sample was then hydrolyzed with 1.0 *N* H_2SO_4 for 5 hrs. in a Cox app. The org. matter extd. with 0.1 *N* KOH after this hydrolysis represents a fraction in a much more stable combination with the mineral component. Each group of org. matter was analyzed for org. C by the Tyurin method (Results of work on the compn. of org. matter (1940) in soils. *Problemy Sovet. Pochvovedeniya*, 2) and total N. Besides, the fraction of humic acid was sepd. by extg. the soil with 0.1 *N* KOH for 16 hrs. filtering, and pptg. the humic acid with acid, and detg. this according to Kononova, Pankova, and Bel'chikova, C.A. 43, 7617*e*. This humic acid is known as the mobile fraction. The results, presented in 3 tables, show that prolonged culture of soil, grass, and alfalfa mixt. produced a larger quantity of mobile humic acid, an increase in the less stable humic acid and fulvic acid group, and an increase in the total org. matter content of the soil. In permanent soil the ratio of humic acid to fulvic acid was 2 and in the fallowed land 1.83. In the extended soil culture the ratio was close to that of permanent soil. The quantity of humic acid in the permanent soil was 41% and in the fallow 30.5% of the total org. matter. In the 1 grass soil the humic acid content was 38%. In the 2-year soil it was 30.4%. I. S. Jolle

1957

CA

15

The tempo of accumulation and decomposition of soil organic matter in a sod rotation in the regions of irregular precipitation. M. I. Suchalkina. *Agrobiologiya* 1951, No. 4, 86-91.—Expts. with different crops which have grass sod in the rotation on soils between shelter belts and in the open steppe show that the shelter belts are conducive to accumulation of org. matter and hence also of N.

J. S. Joffe

1952

YAROVENKO, V.V., kandidat sel'skokhozyzystvennykh nauk; SUCHALKINA, M.I.

Effectiveness of Mal'tsev's tillage system on slopes. Agrobiologiia no.5:95-101 S-O '56. (MLRA 9:11)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva tsentral'no-chernozemnoy polosy imeni V.V.Dokuchaeva, Voronezhskoy oblasti.

(Tillage)

YAROVENKO, V.V., kand.sel'skokhozyaystvennykh nauk; KAMMODOV, V.V., kand.sel'skokhozyaystvennykh nauk; SUCHALKINA, M.I.

Tilling slopes when planting meadows. Zemledelie 6 no.9:59-63 S '58. (MIRA 11:9)

(Pastures and meadows) (Tillage)

SKACHKOV, I.A.; SUCHALKINA, M.I.

Soil cultivation practices for controlling erosion in the Central Black Earth region. Zemledelie 7 no.8:34-39 Ag '59. (MIRA 12:10)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TSentral'no-chernozemnoy polosy imeni V.V. Dokuchayeva.
(Central Black Earth region--Soil conservation)

SUCHALKINA, M.M.

The influence of grasses on the accumulation of organic matter and soil structure. M. M. Suchalkina and G. N. Kotlyarov. *Agrobiologiya* 1946, No. 5, 90-7.—Perennial grass mixtures contribute gluelike materials as root exudations which microbes at the rhizosphere convert into org. colloids endowed with cementing properties. Upon their death the initial decompn. products give again a cementing org. material. The combination of alfalfa and quack grass has increased the org. matter content of a chernozem from 8 to 8.5% after 1 yr. and to 8.9% after 2 yrs. After 4 years the sod contained as much org. matter as a 50-year sod. Different grasses vary in their contribution of org. matter. At the same time the structure of the soil is improved. Single grasses or sod crops do not contribute as much org. matter as mixtures of these. Thus alfalfa alone gave 68.9 cm. of roots per ha. after the 1st year and 80.1 after the 2nd, whereas alfalfa and crested wheat (*Agropyrum cristatum*) gave 109.9 and 130.5 cm. per ha. J. S. Joffe

Inst. Agric. in Dokuchayev, Taloveya, Voronezh oblast'

DENISOV, V.I.; KRUTEL', A.T.; PODLESSKAYA, Ye.M.; BREDIKHINA, A.M.; SUCHALKINA, Z.P.; VERESHCHAGINA, N.M.; DENISOVA, T.F.; PIROGOV, V.I., red.; KUZIN, N., tekhn.red.

[Economy of Belgorod Province; a statistical manual] Narodnoe khoziaistvo Belgorodskoi oblasti; statisticheskii sbornik. Orel, Gosstatizdat, 1959. 253 p. (MIRA 13:6)

1. Belgorodskaya oblast'. Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo upravleniya Belgorodskoy oblasti (for Pirogov).
(Belgorod Province--Statistics)

SUCHAN, A.

CZECHOSLOVAKIA / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 5, 1958, 22099.

Author : Gyorgy, A. Suchan, A., Polakova, Z., Miterova K.

Inst : Not given.

Title : Fleeting Erythrocyte Agglutinogen As A Cause of Their Polyagglutination.

Orig Pub: Vnitznin Lekarstvi, 1957, 3, No 5, 423-426.

Abstract: No abstract.

Card 1/1

SUCHAN, J.

Mechanization indices in the building trade and the ways in which they can be determined.

P. 5. (MECHANISACE.) (Praha, Czechoslovakia) Vol. 5, No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

SUCHA, J.

"Trends in the development of the use of bulk cement in Eastern Germany."

p. 121 (Mechanizace, Vol. 5, No. 4, April 1956, Praha, Czechoslovakia)

Monthly Index of East European Accessions (MIAI) LC, Vol. 7, No. 9, September 1958.

SUCHAN, Jaroslav; KUBIN, Zdenek

Injuries among agricultural workers. Acta univ. carol. [Med] Suppl. 15:219-223 '61.

1. Ortopedicka klinika lekarske fakulty University Karlovy se sidlem v Plzni, prednosta doc. dr. Dusan Polivka.
(AGRICULTURE) (ACCIDENTS INDUSTRIAL)

SUCHAN, J.

Transchondral fractures of the talus. Acta chir.orthop.traum.cech. 28 no.5:433-437 O '61.

1. Statni fakultni nemocnice v Plzni, ortopedicka klinika, prednosta doc. dr. D. Polivka.

(TALUS fract & disloc)

LANDRGOT, B.; POLAK, O.; SUCHAN, J.

Late sequelae after injuries to the cervical spine. Bratisl. lek. listy 43 no.3:166-170 '63.

1. Z Ortopedicke kliniky SFN v Plzni, prednosta doc. MUDr. D.Polivka, a z Neurologicke kliniky SFN v Plzni, prednosta prof. MUDr. V.Pitha.
(SPINAL INJURIES) (NECK) (NEUROLOGIC MANIFESTATIONS)

[illegible]

[illegible] prevention in [illegible]. [illegible]. [illegible]. [illegible]. 21 no.5:431-434 [illegible].

1. [illegible] Kliniki Johnroke Faculty Harlow University v Lund [illegible] Dr. [illegible] [illegible].